

**Abstract**

A method of treating a neurological disorder in a patient is provided. The method comprises intravascularly delivering a first electrical lead within the head of the patient, and non-vascularly delivering a second electrical lead within the head the patient. The vascular and intravascular leads are placed adjacent brain tissue (e.g., cortical brain tissue or deep brain tissue). Optionally, the method comprises implanting a source of stimulation and/or recorder within the patient's body, and then electrically coupling the proximal ends of the electrical leads to the implanted device. Using the electrical leads, the brain tissue can then be stimulated and/or recorded in order to treat the neurological disorder.